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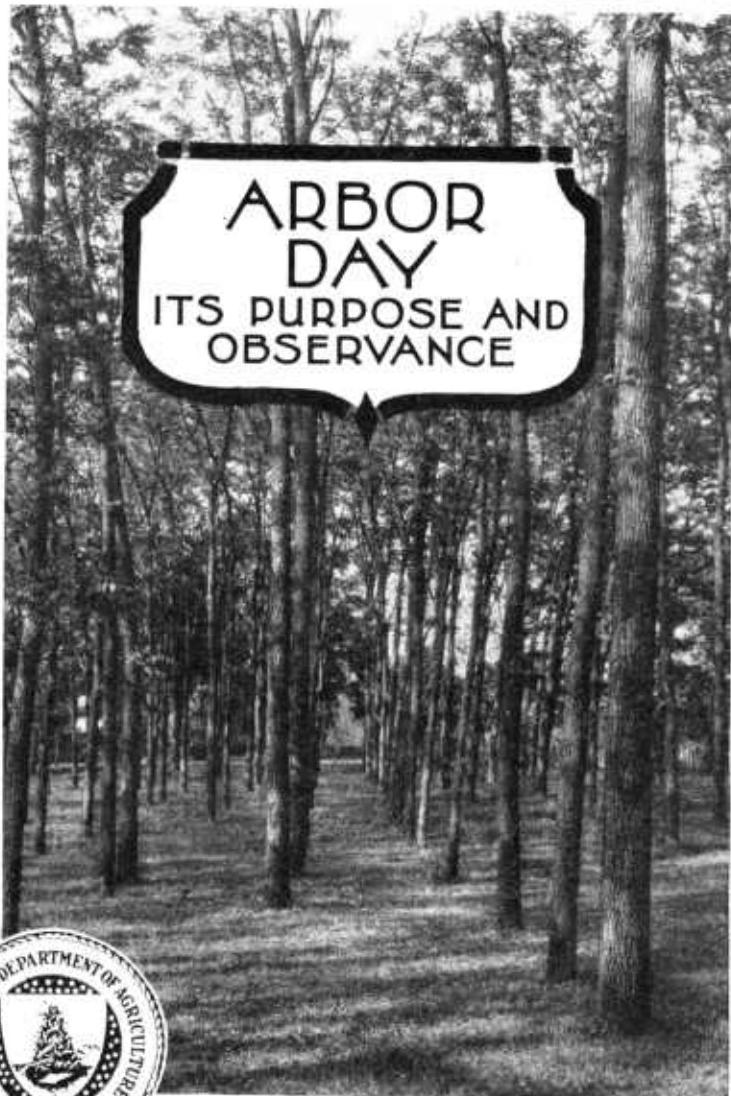
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U. S. Department of Agriculture

U. S. DEPARTMENT OF AGRICULTURE

FARMERS' BULLETIN No. 1492 rev.
Nov. 1936

ARBOR DAY ITS PURPOSE AND OBSERVANCE



ARBOR DAY has become associated all over the United States with economic as well as patriotic and esthetic ideas. The planting of trees by schools or organizations is usually accompanied by ceremonies intended not only to impress upon those present the beauty of trees and their effect in improving the appearance of school grounds, streets, parks, highways, etc., but also to lead them to a realization of the value of community and national foresight. As a patriotic festival it partakes of the nature of a Fourth-of-July celebration or the observance of Washington's Birthday, and in Texas, where the season is propitious, it is observed on February 22. An abundant supply of timber has always had a basic influence on the development of the American Nation and on the high standards of living characteristic of this country. Even more beautiful and more important to the national well-being than the trees of streets and parks are the great forests of pine and fir and hardwoods that clothe the mountainsides and the sandy plains, and that should be a never-failing source of wood, water, and other necessities of life and civilization. The Arbor Day tree is not only a thing of beauty and utility in itself; it is also a symbol, standing for the recognition of the importance of the forest in the life of the Nation.

Washington, D. C.

Issued June 1923
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ARBOR DAY, ITS PURPOSE AND OBSERVANCE

Prepared by the Forest Service

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ORIGIN OF ARBOR DAY

TREE-PLANTING FESTIVALS are probably as old as civilization. Sacred trees and groves, planted avenues and roadsides, shaded academic walks, and memorial trees were common long before North America was discovered. Arbor Day, as such, however, is purely American in origin and grew out of conditions peculiar to the Great Plains of the West, a country practically treeless over much of its area but supporting a flourishing agriculture and with a soil and climate well able to nourish tree growth.

Arbor Day originated and was first observed in Nebraska in 1872. The plan was conceived and the name "Arbor Day" proposed by J. Sterling Morton, then a member of the State Board of Agriculture, and later United States Secretary of Agriculture. At a meeting of the State Board of Agriculture of Nebraska, held at Lincoln, January 4, 1872, he introduced a resolution

that Wednesday, the 10th day of April 1872 be * * * especially set apart and consecrated to tree planting in the State of Nebraska and the State board of agriculture hereby name it Arbor Day.

The resolution was adopted, and prizes were offered to the county agricultural society and to the individual who should plant the greatest number of trees. Wide publicity was given to the plan, and more than a million trees were planted in Nebraska on that first Arbor Day (fig. 1).

SPREAD OF THE OBSERVANCE OF ARBOR DAY

Tree planting was no new thing in Nebraska when the Arbor Day plan was originated by Mr. Morton, for the first settlers found that the lack of trees was a serious drawback, and some attempt was soon made to supply the deficiency. Every farmer needs wood for fuel and fence posts. Just as imperative is the need of protection for

orchards, field crops, and buildings from the winds that sweep unhindered over that vast Plains region (fig. 2). Before 1872, however, tree planting had been haphazard. The adoption of the Arbor Day plan meant the organization of the work. Thereafter the people of Nebraska were being continually reminded of the desirability of planting trees and at the same time were furnished with instructions regarding the choice of species and how to plant and care for them. Planting was given an added impetus when the Halsey nursery, oper-



F-267025

FIGURE 1.—Robert Y. Stuart, late chief of the United States Forest Service, planting a tree on the Capitol grounds in honor of the one hundredth anniversary of the birthday of J. Sterling Morton, founder of Arbor Day.

ated by the Federal Forest Service, was established in 1902. From being practically a treeless State, only about 3 percent of the total area having originally been covered with natural timber, Nebraska has become one of the leaders in practical forestry and is so much identified with tree raising that on April 4, 1895, the legislature passed a resolution that the State be popularly known as the Tree Planter's State.

Under the Kineaid Act, the Forest Service distributed 2,000,000 young trees from the Federal nursery to 10,000 residents, in addition to the planting which was done on Government land in the Nebraska National Forest.

Under section 4 of the Clarke-McNary law of 1924, which superseded the Kincaid Act, the extension service of the Nebraska College of Agriculture now distributes tree planting stock to farmers. This service started in 1926.

On April 4, 1930, 58 years after the first observance of Arbor Day, the Nebraska State superintendent of public instruction, in a proclamation to county and city superintendents of schools said in part:

The success which has been achieved on the Nebraska National Forest indicates that we can grow trees in Nebraska. This office solicits your earnest cooperation in carrying on a program of tree planting and landscape beautification in connection with the school so that the entire community may be stimulated to new

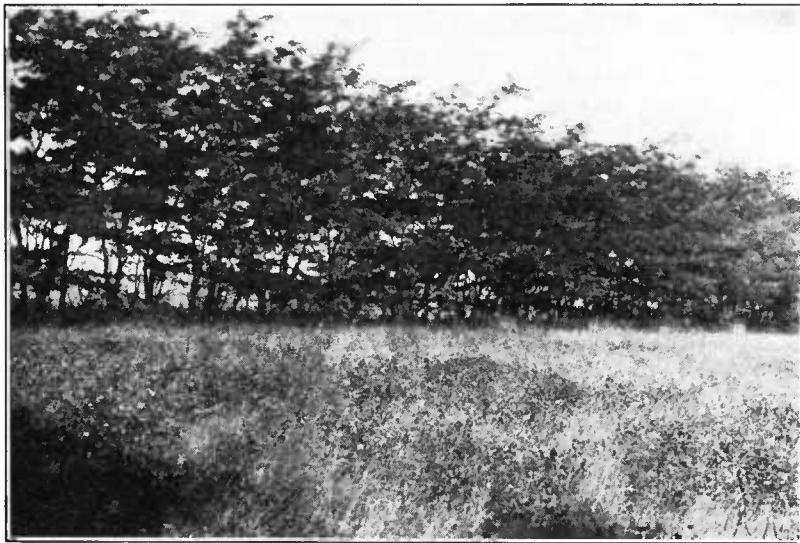


FIGURE 2.—Locust windbreak, Seward County, Nebr.

F-80098

activity along this line. It will not do for Nebraska to permit other States to outdo us in this matter. We must bestir ourselves if we hope to be worthy of the name "The Tree-Planters' State."

Kansas and Tennessee followed the lead of Nebraska in 1875, and the next year Minnesota fell into line. In Kansas the same comparatively treeless conditions as in Nebraska made the plan of immediate economic importance. In Minnesota the white pine forests were being destroyed with alarming rapidity, and no provision was being made for replacing them.

After 1876 there was for some years a check in the spread of the Arbor Day idea, and it was not until 1882 that two more States began to celebrate the day—North Dakota and Ohio.

Before 1882 the efforts to extend the celebration of Arbor Day had been made through agricultural associations and town authorities. The first celebration of the day in Ohio, which was held during the sessions of a national forestry convention at Cincinnati, took an entirely new form at the suggestion of Warren Higley, president of the Ohio Forestry Commission. Under the direction of Superintendent of Schools John B. Peaslee, the school children of the city had a prominent part in the celebration, which included a parade through

the streets to Eden Park, where trees were planted in memory of distinguished men. About 20,000 children participated in the singing and reciting and in putting the soil about the trees, which had already been set in place. Two new elements were introduced into the Arbor Day plan on this occasion—the day was made a school festival and the practice of planting memorial trees and groves was inaugurated. These new developments were largely responsible for the extension of Arbor Day over the rest of the United States and beyond. Tree planting by school children became a festival combining pleasure, utility, and instruction; and one of the greatest benefits of the observance of Arbor Day has been its effect in impressing upon the minds of the young people the value of trees and the necessity for conserving all the natural resources of the country (fig. 3).

The American Forestry Congress in 1883, at St. Paul, Minn., passed a resolution recommending the observance of Arbor Day in the schools of every State, and a committee was appointed to demonstrate to school authorities the value of Arbor Day celebrations. N. G. Northrop, of Connecticut, author of the resolution, was made chairman of this committee. At the annual meeting of the National Educational Association in 1884 he offered a resolution similar to that adopted at St. Paul. Although no action was taken then, the next year the association adopted the following:

Resolved. That in view of the valuable results of Arbor Day work in the six States where such a day has been observed, alike upon the school and the home, this association recommends the general observance of Arbor Day for schools in all our States.

As a school festival the observance of Arbor Day has spread not only throughout the whole United States but far beyond its borders. In 1887 the educational department of Ontario set aside the first Friday in May as a tree- and flower-planting day. In 1895 the plan was officially adopted in Spain. It reached Hawaii in 1905 and is now used in all the dependencies of the United States and in Great Britain, Canada, Australia, the English West Indies, South Africa, New Zealand, France, Norway, the Union of Soviet Socialist Republics, Japan, and China.

To commemorate the golden anniversary of Arbor Day, April 22, 1922, President Harding issued a proclamation on March 31, of that year urging the Governors of the various States—

to designate and set apart the week of April 16–22, 1922, as forest-protection week, and the last day of that week, April 22, as the golden anniversary of Arbor Day and to request officers of public instruction, of counties, cities, and towns, and of civic and commercial organizations to unite in thought and action for the preservation of our common heritage by planning such educational and instructive exercises as shall bring before the people the disastrous effects of the present waste by forest fires and the need of individual and collective effort to conserve the forests and increase our tree growth for ornament and use.

TIME OF ARBOR DAY

The time of the observance of Arbor Day varies greatly in different States and countries, being determined somewhat by climatic conditions. In many States it is combined with Bird Day. In general the date is early in the year in the South and is set further along toward summer in the more northern States. In some States it is in the fall, and in others two dates are set, one in the spring and the other in the fall (table 1).

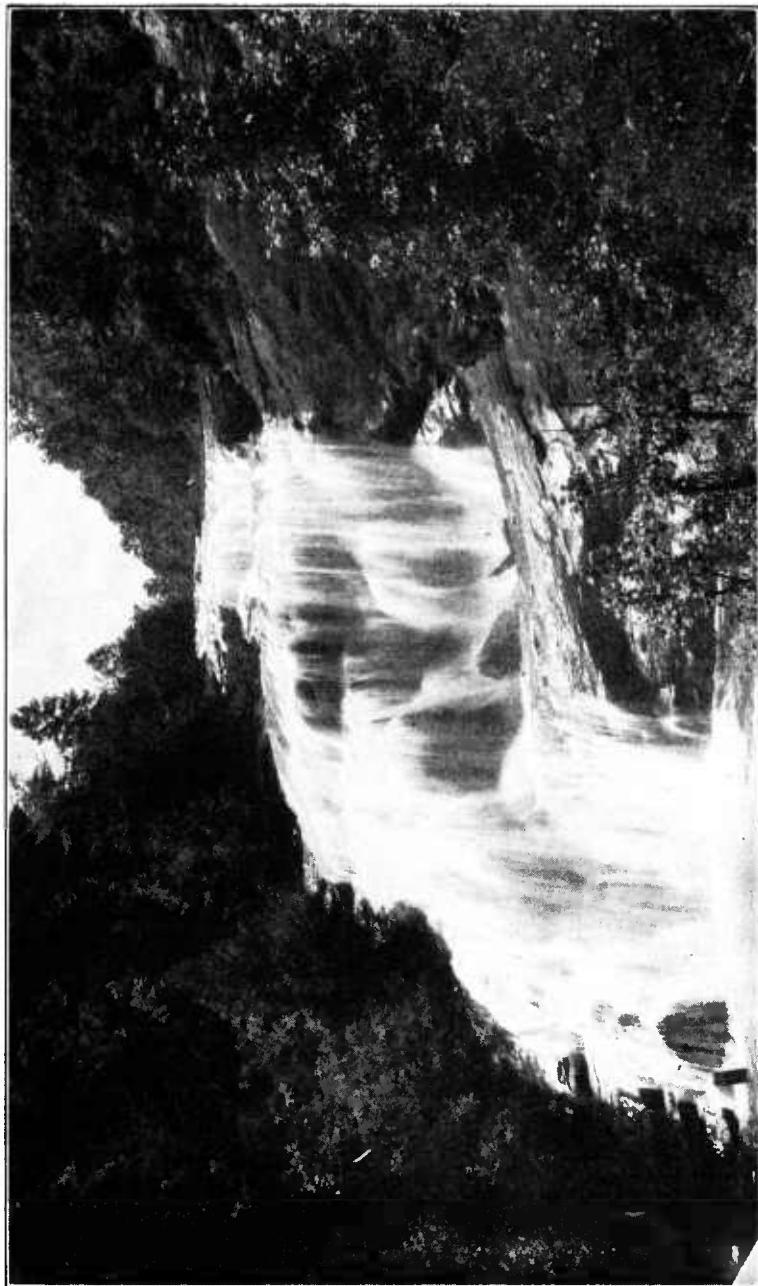


FIGURE 3.—Water, as well as wood and other necessities of civilization, has its source in the forest. Bald River Falls, Cherokee National Forest, Tenn.

TABLE 1.—*Dates on which Arbor Day is observed*

State or Territory	First observed	Law enacted	Time of observance
Alabama-----	1887	-----	In the spring, often on Audubon or Bird Day the Governor issues a proclamation each year.
Arizona-----	1890	1912	In 5 northern counties, the Friday following the first day of April; elsewhere, the Friday following the first day of February. Legal holiday.
Arkansas-----	1906	1905	First Saturday in March.
California-----	1886	1909	March 7, birthday of Luther Burbank.
Colorado-----	1885	1889	Third Friday in April. The Governor issues a proclamation each year. Holiday in all public schools.
Connecticut-----	1886	1886	In the spring, by proclamation of the Governor.
Delaware-----	1901 (?)	1901	By proclamation of the Governor.
District of Columbia-----	1920	-----	Third Friday in April, by proclamation of the commissioners.
Florida-----	1886	-----	First Friday in February.
Georgia-----	1887	1890	First Friday in December.
Hawaii-----	1905	-----	In November, before the winter rains; by proclamation of the Governor.
Idaho-----	1886	1903	Various dates in April, selected by county superintendents of schools.
Illinois-----	1887	1887	In the spring by proclamation of the Governor.
Indiana-----	1884	1913	Second Friday in April.
Iowa-----	1887	-----	Proclamation of the Governor.
Kansas-----	1875	-----	Option of the Governor.
Kentucky-----	1886	1885-86	By proclamation of the Governor.
Louisiana-----	1888	1922	Second Friday in January, by resolution of State Board of Education.
Maine-----	1887	-----	In the spring by proclamation of the Governor, usually about the middle of May.
Maryland-----	1884	1884	First or second Friday in April by proclamation of the Governor.
Massachusetts-----	1886	1886	Last Saturday in April, by proclamation of the Governor.
Michigan-----	1885	-----	In April or May, by proclamation of the Governor.
Minnesota-----	1876	-----	Latter part of April, by proclamation of the Governor, usually upon the suggestion and recommendation of the State forest service.
Mississippi-----	1890	1924	First Friday in February; law authorizes State Board of Education to fix date.
Missouri-----	1886	1889	First Friday after first Tuesday in April.
Montana-----	1888	1887	Second Tuesday in May.
Nebraska-----	1872	1885	April 22, birthday of J. Sterling Morton. Legal holiday.
Nevada-----	1887	-----	By proclamation of Governor. Holiday in all public schools.
New Hampshire-----	1886	-----	Early in May, by proclamation of Governor.
New Jersey-----	1884	1908	Second Friday in April.
New Mexico-----	1890	-----	Second Friday in March, by proclamation of the Governor. Holiday in all public schools.
New York-----	1889	1889	Date varies in different localities of State. By proclamation of the commissioner of education.
North Carolina-----	1893	1915	The Friday following March 15.
North Dakota-----	1882	-----	Option of the Governor. Proclamation.
Ohio-----	1882	1902	About the middle of April, by proclamation of the Governor.
Oklahoma-----	1898	1901	The Friday following the second Monday in March.
Oregon-----	1889	-----	Second Friday in February in western Oregon; second Friday in April in eastern Oregon.
Pennsylvania-----	1885	1885	In the spring, by proclamation of the Governor, and in the fall by authorization of superintendent of public instruction.
Puerto Rico-----	-----	1904	Last Friday in November.
Rhode Island-----	1887	1887	Second Friday in May. Legal holiday.
South Carolina-----	1898	1898	Third Friday in November
South Dakota-----	1884	-----	No law, but generally observed in April throughout the State.
Tennessee-----	1875	1887	First Friday in April, by proclamation of the Governor.
Texas-----	1890	1889	February 22, Washington's Birthday.
Utah-----	-----	1925	April 15. By proclamation of the Governor. Legal holiday.
Vermont-----	1885	-----	Usually the first Friday in May; option of the Governor.
Virginia-----	1892	1902	In the spring, by proclamation of the Governor.
Washington-----	1894	-----	Usually the first Friday in May, by proclamation of the Governor.
West Virginia-----	1883	-----	Usually observed on the second Friday in April.
Wisconsin-----	1892 ¹	1889	Usually observed on the first Friday in May.
Wyoming-----	-----	1888	In the spring, by proclamation of the Governor. Legal holiday.

¹ First general observance in the State.

More than two-thirds of the 48 States have enacted laws for the observance of Arbor Day. In the other States and also in the Territories the day is observed by proclamation of the Governor, authorization of the superintendent of education, or by other action. In six of the States—Arizona, Nebraska, Rhode Island, Texas, Utah, and Wyoming—the appointed day has been made a legal holiday. In Texas, of course, it is already one, February 22, but it is further set apart as Arbor Day. In Colorado, Nevada, and New Mexico Arbor Day is a holiday in all public schools.

ARBOR DAY AND THE SPIRIT OF CIVIC BETTERMENT

Yearly tree plantings have such a far-reaching effect on the community spirit, and through that on civic and social betterment, that no community can afford to neglect them. A clean and beautiful town is a source of pride to its citizens and a constant incentive to them to go on and do better. A slovenly town is apt to mean slovenly inhabitants. The celebration of Arbor Day may very well be the turning point in the attitude of the community toward its civic duties and by consequence toward its social life and its manner of conducting business. Nothing so helps to beautify a city or town as trees, and few things so educate the people in public spirit and foresight as the care of trees.

The celebration of Arbor Day by the planting of trees is the assumption of an all-the-year-round responsibility. Care of the trees is as important as actual planting. An essential part of the Arbor Day program is the assignment of subsequent care of the trees to individuals or organizations, such as Boy or Girl Scouts, particular classes in a school, civic associations, or other such bodies. The assignment should be definite and the responsibility clearly defined. Only in this way will the purpose of the planting be achieved. It is not enough to put a tree in the ground and sing a song over it. Someone must see that it has the water, light, and soil fertility necessary to enable it to grow and that it is properly equipped with guard and stake where there is danger of its being injured. If this is neglected, the fruits of the planting may be thrown away.

Arbor Day plantings also lead to greater appreciation of the beauty and civic value of trees, shrubs, and vines in parks and woodlands. No one who has come to a full realization of this beauty and value will strip dogwood, laurel, or other flowering shrubs and trees, or ruin them permanently for the sake of temporary personal gratification. The spirit of Arbor Day rules out the thoughtless, unsportsmanlike habit of "helping yourself regardless" and substitutes the principle of helping your community, your State, and your country. Arbor Day teaches not only that such a principle is generous and public-spirited but that it pays in the long run.

In this connection many people are troubled about the question of cutting evergreens for Christmas trees, which have become inseparable from the full celebration of Christmas, especially where there are children. A more intimate knowledge of the principles of forestry will make the answer plain. Forestry looks not only to the perpetuation but also to the wise and proper use of forests and woodlands. It is possible, by careful selection of trees to be cut, to obtain evergreen trees for Christmas not only without injury but often with positive

benefit to the forest, just as it is possible to thin out stands of young trees for fuel and obtain faster growth and greater returns in saw timber from the remaining trees. In other words, Christmas trees, like other trees, should be cut in accordance with the principles of forestry. In some places Christmas-tree plantations are managed to supply the demand, especially near large consuming centers or where suitable evergreens do not grow naturally in abundance. Emphasis needs to be put on proper care in selecting the trees to be cut rather than on restriction of the use of Christmas trees. Indeed, if properly directed, there is no reason why the joy associated with the Christmas evergreen may not be a means of arousing in the minds of young chil-



F-201679

FIGURE 4.—Pine plantation, George Washington National Forest, Va. A place where evergreens will grow in abundance.

dren an appreciation of the beauty and usefulness of trees; and keen appreciation of the beauty and usefulness of trees is a long step toward the will to plan and care for them, to use them wisely, to provide for their perpetuation, and in every way to respond to the inspiration of the spirit of Arbor Day. The use of living trees as Christmas trees is becoming more and more popular, and this custom is likely to direct the attention of individuals and communities away from the more destructive methods of adapting winter greens to the celebration of Christmas.

In the half century since its first celebration Arbor Day has become firmly entrenched in the traditions of our country. It already has its place in our history. But the spirit of the day is unique in that it looks not backward but always forward. It directs the eyes of all not toward some achievement of the past but to a goal to be reached in the future. It celebrates not what we have done but what we hope and determine to do now and in the days to come. It appeals to the spirit of youth and to all that is generous and forward-looking in men of every age. It carries with it the inspiration to work toward the betterment of the community, the State, and the Nation (fig. 4).

PLANTING TREES ALONG STREETS AND HIGHWAYS

The attractiveness of many of our cities is due in large measure to the trees planted along their streets. The esthetic advantages of roadside trees are obvious; a barren highway in the country is unattractive and uncomfortable, one planted to trees has the double attractiveness of beauty and shade.

Although Arbor Day has often been the inspiration that led to the adoption of a plan of street or road planting, the best results from such a plan are obtained when it is carried out by some stable organization. This insures not only proper care, but better coordination of effort and especially steady progress from year to year. For city streets the actual planting is now usually in charge of a shade-tree commission, park board, or other officials, who see that trees suitable to the width and other characteristics of the particular street are planted and that the planting is uniform as regards species and the arrangement of the trees. On the highway, as in the city streets, planting plans must be in harmony with laws, regulations, and construction plans for the roadway, and the authorities in charge of these matters must be consulted before decisions can be reached as to what stretches of roadway are to be planted, the species to be planted, spacing, and other particulars (fig. 5).

Several of the States have enacted legislation authorizing roadside planting by the State agencies. Motor associations and others have encouraged the planting of roadside trees. The General Federation of Women's Clubs has a plan of work for the "protection of roadside beauty and highway and memorial tree planting", which recommends the planting of memorial trees as "roads of remembrance" for individuals whom it is desired to honor, as memorials to organizations, as markers for historical sites, and as living Christmas trees. This plan of work recommends the observance of Arbor Day by State-wide tree planting on highway, school, hospital, park, and church grounds. Also it urges the beautification of rural homes along State and national highways and the safeguarding of the beauty of natural scenery. Where highways are of the proper width, it suggests following the plans of the State highway department, with particular attention to the planting of indigenous trees, shrubs, and flowers, and to the development of triangles formed by the dividing of two or more roads, and of small wayside parks planted with trees and provided with seats in the shade of the trees.

Interest in street and highway planting continues to increase, along with interest in forestry and the conservation of our timber supplies. Roadside tree planting has been made the subject of a publication issued by the Department of Agriculture, Farmers' Bulletin 1482, *Trees for Roadside Planting*. This bulletin deals with the general principles of roadside planting plans and the selection of species.

FOREST PLANTING ON FARMS

By means of planting small forest trees on unused or badly washing farm land the owners can bring their lands back to production. This is a good way of putting land to work, thereby increasing the value of the land and later making it bring in a money return.

The Secretary of Agriculture is authorized by the Clarke-McNary forestry law to cooperate with the various States in producing and

distributing forest-tree seeds and plants for the purpose of establishing windbreaks, shelterbelts, and farm woodlands upon denuded and



F-305688

FIGURE 5.—Bridal Elin, Wethersfield, Conn. In colonial days it was the custom for the bride-to-be to bring a tree from her father's home grounds and to plant it near her new home. Sarah Saltonstall came from New London to marry Daniel Buick at a time when the Connecticut River was frozen over, and she was unable to bring her tree with her. The next spring an old Indian brought her the sapling which has grown into this noble tree, still standing where it was planted, shading the house where the Buicks lived in 1775. (Courtesy Katherine Matthies, New Haven, Conn.)

nonforested lands within such cooperating States. Prior to the enactment of this law in 1924 a few of the States had extended assistance to landowners and particularly farmers in reforesting cut-over lands

and establishing and improving woodlands. Low-priced planting stock such as is essential in farm planting was not, however, generally available throughout the country.

The passage of the law has materially stimulated the States to supply the types of planting stock best suited to farm planting and in quantities sufficient to meet the constantly growing demand (fig.



F-291031

FIGURE 6.—A Montana farmer gets part of his winter fuel supply from his shelterbelt.

6). Many million young trees are annually distributed to farmers from the State nurseries.

Table 2 indicates the cooperating States and the names and addresses of the agencies to which application for young trees to be used in farm planting may be made.

TABLE 2.—*Officials to whom application should be made for forest planting stock for windbreaks, shelterbelts, and farm wood lots*

State	Designation	State officer and address
Alabama.....	Commission of Forestry.....	State Forester, Montgomery, Ala.
Arkansas.....	Arkansas State Forestry Commission.....	State Forester, State Capitol, Little Rock, Ark.
Colorado.....	State Agricultural College.....	Extension Forester, Fort Collins, Colo.
Connecticut.....	Connecticut Agricultural Experiment Station.....	Forester, New Haven, Conn.
Delaware.....	State Forestry Department.....	State Forester, State House, Dover, Del.
Florida.....	Florida Forest Service.....	State Forester, Tallahassee, Fla.
Georgia.....	Georgia Forest Service.....	State Forester, State Capitol, Atlanta, Ga.
Hawaii.....	Commission of Agriculture and Forestry.....	Territorial Forester, Honolulu, Hawaiian Territory.
Idaho.....	University of Idaho, School of Forestry.....	Dean, Moscow, Idaho.
Indiana.....	Department of Conservation, Division of Forestry.....	State Forester, Indianapolis, Ind.
Iowa.....	Iowa State College.....	Ames, Iowa.
Kansas.....	Kansas State Agricultural College, Division of Forestry.....	Superintendent, Fort Hays Experiment Station, Fort Hays, Kans.
Kentucky.....	Kentucky State Forest Service.....	State Forester, Frankfort, Ky.
Louisiana.....	Department of Conservation, Division of Forestry.....	State Forester, New Orleans, La.
Maine.....	Maine Forest Service.....	Forest Commissioner, Augusta, Maine.
Maryland.....	University of Maryland, State Department of Forestry.....	State Forester, 1411 Fidelity Bldg., Baltimore, Md.
Massachusetts.....	Department of Conservation, Division of Forestry.....	Commissioner of Conservation, 20 Somerset St., Boston, Mass.
Michigan.....	State College of Agriculture.....	East Lansing, Mich.

TABLE 2.—*Officials to whom application should be made for forest planting stock for windbreaks, shelterbelts, and farm wood lots—Continued*

State	Designation	State officer and address
Mississippi.....	Mississippi Forestry Commission.....	State Forester, Jackson, Miss.
Montana.....	State Forest Department.....	State Forester, Missoula, Mont.
Nebraska.....	University of Nebraska, College of Agriculture.....	Extension Forester, Lincoln, Nebr.
New Hampshire.....	State Forestry Department.....	State Forester, Concord, N. H.
New Jersey.....	Department of Conservation and Development, Division of Forests and Parks.....	State Forester, Trenton, N. J.
New York.....	Conservation Commission, Division of Lands and Forests.....	Superintendent, Lands and Forests, Albany, N. Y.
North Carolina....	Department of Conservation and Development, Division of Forestry.....	State Forester, Raleigh, N. C.
North Dakota....	State School of Forestry.....	State Forester, Bottineau, N. Dak.
Ohio.....	Agricultural Experiment Station, Department of Forestry.....	State Forester, Wooster, Ohio.
Oklahoma.....	Oklahoma Forest Commission.....	State Forester, Oklahoma City, Okla.
Oregon.....	State Board of Forestry.....	State Forester, Salem, Oreg.
Pennsylvania.....	Department of Forests and Waters.....	Secretary, Harrisburg, Pa.
Puerto Rico.....	Department of Agriculture and Commerce.....	General Superintendent of Forests, Rio Piedras, P. R.
South Carolina....	State Forestry Commission.....	State Forester, 105 State Office Bldg., Columbia, S. C.
South Dakota....	Department of Agriculture.....	Secretary of Agriculture, State House, Pierre, S. Dak.
Tennessee.....	Department of Agriculture, Division of Forestry.....	State Forester, Nashville, Tenn.
Texas.....	Agricultural and Mechanical College.....	Director, Texas Forest Service, College Station, Tex.
Utah.....	Utah State Agricultural College.....	Dean, School of Forestry, Logan, Utah.
Vermont.....	State Forest Service.....	Commissioner of Forestry, Montpelier, Vt.
Virginia.....	State Conservation and Development Commission, Virginia Forest Service.....	State Forester, University, Va.
Washington.....	State College of Washington, Agricultural Experiment Station.....	Director, Pullman, Wash.
West Virginia....	Conservation Commission.....	State Forester, Charleston, W. Va.
Wisconsin.....	State Conservation Commission.....	Director, Madison, Wis.
Wyoming.....	University of Wyoming Experiment Station.....	Director, State Experimental Farm, Laramie, Wyo.

MEMORIAL TREES

When the World War came to an end in November 1918, the thoughts of the Nation turned at once to finding appropriate memorials for those who had fallen for the cause of world freedom. For this purpose it seemed especially fitting that each community commemorate the sacrifice made by its own citizens by planting, with suitable ceremonies, groves or avenues of trees, which should serve as living monuments to the fallen soldiers. Many organizations took up the idea, and the Secretary of Agriculture addressed a letter to the Governors of the States suggesting that they

commend to the citizens of their States, and particularly to those in attendance upon its schools, such an observance of Arbor Day as will secure a widespread planting of trees, dedicated to those whose lives have been sacrificed in the great struggle to preserve American rights and the civilization of the world.

Thousands of memorial-tree plantings have been made since that time; single trees in memory of individuals, memorial plantings along streets and highways, and groves in parks and on community grounds. The custom has also been extended to include trees and groves in honor of patriotic and civic organizations and to mark historic spots.

This memorial value of trees is no new thing. Many trees in many parts of this country have become memorial trees through association with notable persons and events (fig. 7). Because of long life, such trees record themselves in the traditions of the community or the memories of its people. Many of our Presidents have been ardent



Pecan trees at Mount Vernon, Va., mentioned by George Washington in his diary as planted on March 25, 1775, the nuts having been given to him by Thomas Jefferson. They are the oldest trees on the estate.



Arkansas Council Oak, Dardanelle, Ark. The marker at the base of the tree tells that an important treaty with the Indians was here negotiated.



Lanier Oak, Atlantic Coastal Highway, Brunswick, Ga.
Under the gracious boughs of this tree,
Sidney Lanier was inspired to write
The Marshes of Glynn, which stretch
within the horizon of the view from
the tree.



La Fitte Live Oak,
named for a pirate
of the region.
Jefferson County,
Louisiana



Marker on a tree
that owns itself,
because of the
love of its former
owner.



Peter Lassen Pine,
near Milford, Calif.,
close to which
Peter Lassen
was killed by
Indians.

FIGURE 7.—Trees that have figured in history.

tree lovers, and many are the trees that have become famous through such association. Of the living George Washington trees, for instance, there are more than 40 at Mount Vernon, Va., which were planted by Washington's own hands or under his supervision. The Penn Treaty Elm, the Connecticut Charter Oak, the Washington Cambridge Elm, are no more, but the fame of each lives on, and the tribe of each is perpetuated by one or more scions.

Outstanding living tree memorials, representing different parts of the country, include, among many others, the King's Pine of Maine, the Glebe House Sycamore of Connecticut, the War Scythe Balsam Poplar of New York, Pennsylvania's Liberty Elm, the Treaty Oak of the District of Columbia, North Carolina's Battleground Oak, the Lanier Oak of Georgia, the De Soto Oak of Florida, the Confederate Oak of Mississippi, the La Fitte Live Oak of Louisiana, the Santa Anna Surrender Oak of Texas, the Arkansas Council Oak, the Logan Elm of Ohio, the Indiana Constitutional Elm, the James Fenimore Cooper Oak of Michigan, the Delaware and Wyandotte Maple of Kansas, the Montana Twin Pines, the western red cedar in Washington under whose branches territorial volunteers camped to watch for Indian raiding parties in Yakima Pass, and that giant among trees, the General Sherman Sequoia in California.

TREES TO PLANT

The permanent success of the Arbor Day plan, as of any other plan involving tree planting, is conditioned upon the selection of the right species and upon proper attention to the planting and the subsequent care of the trees. So various are the conditions of soil, climate, and site in the United States that it would take a volume to discuss adequately the species suitable for planting in the different regions and localities. The list given on pages 16, 17, and 18 is merely a suggestion of species generally hardy in the several States. The absence of any particular species from the list does not necessarily mean that it is unsuitable or inferior. Nor is it certain that the species included will thrive on any particular site. Soil aspects, elevation, and many other factors are important in the consideration of what species is most suitable, and it is recommended that assistance be obtained from State forestry authorities before planting. In practically every State there is now a forestry department, State horticulturist, agricultural college, or other agency from which may be obtained suggestions as to the best kinds and sizes of trees to be planted for different purposes, as well as information on the time to plant, the methods of planting, and the proper spacing of trees. Before undertaking any Arbor Day planting program inquiry should be made of the State authorities in regard to these points.

Detailed information on planting and caring for trees is found in the following publications, issued by the United States Department of Agriculture, Washington, D. C., which can be procured at 5 cents each (except as noted) from the Superintendent of Documents, Government Printing Office, Washington, D. C.

Farmers' Bulletin 1208, Trees for Town and City Streets.

Farmers' Bulletin 1209, Planting and Care of Street Trees.

Farmers' Bulletin 1482, Trees for Roadside Planting.

Farmers' Bulletin 1591, Transplanting Trees and Shrubs.

Farmers' Bulletin 1453, Growing and Planting Coniferous Trees on the Farm.

Farmers' Bulletin 1123, Growing and Planting Hardwood Seedlings on the Farm.
Department Bulletin 863, Forestry Lessons on Home Woodlands (10 cents.)
Farmers' Bulletin 1177, Care and Improvement of the Farm Woods.
Farmers' Bulletin 1087, Beautifying the Farmstead.
Farmers' Bulletin 1312, Tree Planting in the Great Plains Region.
Farmers' Bulletin 1628, Growing Black Walnut Trees, will be of interest to tree-planting farmers, especially in the Eastern States.
Farmers' Bulletin 1071, Making Woodlands Profitable in the Southern States.

A few general principles should always be kept in mind in selecting trees to plant. Every species has a characteristic habit of growth, and it is desirable to select trees which have the greatest natural beauty of form consistent with hardiness and freedom from disease and insect pests in the location where they are to be planted (fig. 8). In the case of deciduous species the tree in winter may well be the



F-23926

FIGURE 8.—Trees of characteristically attractive form—sugar maples and American elm.

basis, at least in part, of this choice, for then the eye is not distracted from consideration of form by the beauty of the leaves. The form chosen should not only be beautiful, but should harmonize with the position in which the tree is to be placed; as, for instance, narrow, columnar crowns for narrow streets, broad-spreading crowns for wide avenues; evergreens, in most cases, for screens, and deciduous trees near dwellings or schoolhouses. Native trees are often to be preferred for the reason that they are known to flourish under the soil and climatic conditions of the region. Long-lived species, tough species that will not easily break or drop branches in high winds, and disease-resistant trees and those free from insect pests, are to be sought. Trees that sprout from the roots, such as poplar and black locust; those that have disagreeable odors, such as ailanthus; and those that are untidy or lose their leaves early are in most cases to be avoided.

The species included in the following list are generally hardy in the State indicated, though for any particular site it is best to obtain

the advice of local or State authorities. The list is only suggestive, and the absence of any species does not necessarily mean that it is unsuitable.

Alabama.—Native pines, live oak, willow oak, laurel oak, evergreen magnolia, holly, red (sweet) gum, and dogwood.

Arizona.—Arizona and smooth cypresses, American elm, Chinese elm, native cottonwood, silverleaf poplar, honeylocust, boxelder, Arizona sycamore, green ash, black locust, hackberry, and tamarisk.

Arkansas.—Chinese arborvitae, shortleaf pine, white oak, black oak, willow oak, sugar maple, red maple, evergreen magnolia, American elm, hickories, hackberry, red (sweet) gum, and holly.

California.—Foothills regions—Lawson's cypress (Port Orford cedar), deodar cedar, California juniper, Monterey cypress, big tree, London (oriental) plane, incense cedar.

Coastal region—Aleppo pine, Monterey pine, redwood, Monterey cypress, English elm, California sycamore, London (oriental) plane, California walnut, madroña, bigleaf maple, California live oak.

Valley region—Incense cedar, big tree, Monterey cypress, coulter pine, Norfolk Island pine, deodar cedar, English elm, valley oak, blue gum, red gum, California sycamore.

Colorado.—Plains region—Ponderosa pine, Rocky Mountain red cedar, American elm, Chinese elm, honeylocust, hackberry, Russian-olive, silver poplar.

Mountain region—Blue spruce, Douglas fir, white fir, ponderosa pine, native cottonwoods, and boxelder.

Connecticut.—Norway pine, white spruce, white oak, red oak, black oak, pin oak, sugar maple, red maple, Norway maple, white ash, American elm, sycamore, black walnut, horsechestnut, basswood, beech, and canoe (paper) birch.

Delaware.—Norway spruce, white spruce, arborvitae (northern white cedar), southern white cedar, eastern hemlock, white oak, black oak, pin oak, willow oak, sugar maple, Norway maple, red maple, white ash, holly, black alder, Lombardy poplar, American elm, red (sweet) gum, London (oriental) plane, beech, basswood, and weeping willow.

Florida.—North—Live oak, laurel oak, Washington palm, Canary Island date palm, cabbage palmetto, slash pine, and longleaf pine.

South—Australian pine, silk oak, evergreen magnolia, coconut, and royal palms.

Georgia.—Deodar cedar, bald (southern) cypress, Carolina and eastern hemlocks, white oak, black oak, willow oak, laurel oak, pin oak, post oak, live oak, red maple, sugarberry, redbud, fringetree, sweetgum, sweetbay, holly, evergreen magnolia, and native pines.

Idaho.—Blue spruce, Engelmann spruce, white fir, Douglas fir, Rocky Mountain red cedar, jack pine, ponderosa pine, paper birch, Norway maple, sycamore maple, green ash, weeping willow, black cottonwood, narrowleaf cottonwood, aspen, Balm-of-Gilead poplar, hackberry, boxelder, American elm, cork elm, honeylocust, and black locust.

Illinois.—White pine, Norway spruce, arborvitae (northern white cedar), European larch, swamp white oak, black oak, bur oak, pin oak, red oak, Norway maple, sugar maple, tuliptree (yellow poplar), sycamore, basswood, black walnut, American elm, hackberry, shellbark and bitternut hickories, and ginkgo.

Indiana.—Arborvitae (northern white cedar) white oak, red oak, pin oak, sugar maple, Norway maple, red maple, basswood, swamp white oak, black walnut, tuliptree (yellow poplar), sycamore, American elm, and ginkgo.

Iowa.—Arborvitae (northern white cedar), Norway spruce, white pine, white oak, pin oak, red oak, paper birch, Norway maple, sugar maple, American elm, sycamore, hackberry, and white ash.

Kansas.—Chinese arborvitae, Scotch pine, pin oak, green ash, hackberry, honeylocust, Russian-olive, sycamore, black walnut, American elm, and Chinese elm.

Kentucky.—Pin oak, red oak, bur oak, overcup oak, Norway maple, sugar maple, red maple, white ash, sycamore, basswood, tuliptree (yellow poplar), ginkgo, black walnut, cucumber magnolia, and hickories.

Louisiana.—Southern cypress, laurel oak, live oak, southern red oak, post oak, evergreen magnolia, winged elm, sugarberry, sycamore, red (sweet) gum, and native pines.

Maine.—European larch, arborvitae (northern white cedar), red spruce, white spruce, red pine, red oak, paper birch, red maple, American elm, thorn tree, beech, and basswood.

Maryland and the District of Columbia.—*Arborvitae* (northern white cedar), white oak, pin oak, red oak, willow oak, Norway maple, red maple, London (oriental) plane, American elm, basswood, European lindens, tuliptree (yellow poplar), beech, dogwood, red (sweet) gum, and ginkgo.

Massachusetts.—White pine, red pine, white spruce, red spruce, *arborvitae* (northern white cedar), red oak, pin oak, European and native white birches, sugar maple, Norway maple, mountain ash, European lindens, London (oriental) plane, American elm, horsechestnut, beech, black walnut, and butternut.

Michigan.—White pine, red pine, *arborvitae* (northern white cedar), Norway spruce, eastern hemlock, balsam fir, red oak, bur oak, yellow birch, sweet birch, sugar maple, red maple, American elm, rock elm, and beech.

Minnesota.—Norway pine, white pine, white spruce, *arborvitae* (northern white cedar), paper birch, sugar maple, red maple, green ash, white ash, American elm, basswood, and boxelder.

Mississippi.—Laurel oak, willow oak, live oak, southern red oak, sugarberry, winged elm, red (sweet) gum, evergreen magnolia, sycamore, holly, native pines, and dogwood.

Missouri.—Shortleaf pine, oaks, sugar maple, red and green ashes, American elm, hackberry, red (sweet) gum, tuliptree (yellow poplar), black gum, evergreen magnolia, holly, and redbud.

Montana.—Douglas fir, Engelmann spruce, Rocky Mountain red cedar, green ash, cottonwood, boxelder, and black locust.

Nebraska.—*Ponderosa* pine, Scotch pine, jack pine, bur oak, green ash, honeylocust, hackberry, Russian-olive, American elm, and native cottonwoods.

Nevada.—Black locust, Chinese poplar, boxelder, tamarisk, native cottonwoods, and Chinese elm.

New Hampshire.—Norway and white spruces, red pine, white pine, paper birch, sugar maple, white ash, American elm, beech, and basswood.

New Jersey.—Pin oak, red oak, white oak, Norway maple, green ash, American elm, hackberry, European linden, honeylocust, black locust, tuliptree (yellow poplar), sycamore, black walnut, London (oriental) plane, red (sweet) gum, and black gum.

New Mexico.—Green and Arizona ashes, native cottonwood, black locust, Russian mulberry, tamarisk, Russian-olive, and Chinese elm.

New York.—White spruce, blue spruce, white pine, Scotch pine, red pine, balsam fir, eastern hemlock, *arborvitae* (northern white cedar), white oak, black oak, red oak, pin oak, basswood, beech, sugar maple, Norway maple, and American elm.

North Carolina.—Loblolly pine, longleaf pine, white oak, black oak, post oak, southern red oak, evergreen magnolia, holly, hickories, black walnut, redbud, tuliptree (yellow poplar), sycamore, red (sweet) gum, and basswood.

North Dakota.—Jack pine, Scotch pine, *ponderosa* pine, bur oak, green ash, white willow, boxelder, black walnut, American elm, hackberry, balsam poplar, Norway poplar, and Russian-olive.

Ohio.—European larch, white pine, Scotch pine, Norway spruce, blue spruce, white spruce, *arborvitae* (northern white cedar), white oak, red oak, pin oak, black oak, white birch, sugar maple, Norway maple, red (sweet) gum, tuliptree (yellow poplar), horsechestnut, beech, and basswood.

Oklahoma.—Chinese *arborvitae*, American elm, winged elm, cottonwood, Russian-olive, Russian mulberry, black walnut, Osage-orange, black locust, sycamore, and London (oriental) plane.

Oregon.—Western white pine, *ponderosa* pine, Douglas fir, Norway maple, bigleaf maple, green ash, Russian poplar, white willow, English elm, black locust, and boxelder.

Pennsylvania.—Red pine, *arborvitae* (northern white cedar), Norway spruce, red oak, pin oak, European white birch, paper birch, sweet birch, red maple, sugar maple, Norway maple, tuliptree (yellow poplar), American elm, slippery elm, black walnut, sycamore, beech, and hickories.

Rhode Island.—White oak, black oak, bur oak, river birch, European white birch, red maple, sugar maple, Norway maple, American elm, tuliptree (yellow poplar), black walnut, and hickories.

South Carolina.—Bald (southern) cypress, live oak, willow oak, laurel oak, southern red oak, red maple, redbud, sugarberry, sycamore, basswood, tulip tree (yellow poplar), evergreen magnolia, ginkgo, pecan, and native pines.

South Dakota.—Rocky Mountain red cedar, Scotch pine, jack pine, *ponderosa* pine, green ash, American elm, boxelder, native cottonwoods, Russian-olive, and hackberry.

Tennessee.—Eastern hemlock, southern cypress, willow oak, red oak, white oak, pin oak, sugar maple, red maple, American elm, tuliptree (yellow poplar), basswood, sugarberry, black gum, red (sweet) gum, evergreen magnolia, and hickories.

Texas.—East—Bald (southern) cypress, longleaf pine, Chinese arborvitae, pin oak, post oak, southern red oak, black oak, Texas red oak, willow oak, live oak, green ash, sycamore, American elm, cedar elm, red (sweet) gum, sugarberry, pecan, and evergreen magnolia.

West—Alligator juniper, one-seed juniper, green ash, Texas ash, native cottonwoods, Chinese elm, tamarisk, China tree, Texas umbrella-tree (umbrella China-tree), black locust, boxelder, nogal, and Mexican walnut, Osage-orange, hackberry, western soapberry, and desert willow.

Utah.—Blue spruce, Rocky Mountain red cedar, ponderosa pine, Scotch pine, jack pine, Austrian pine, silver maple, green ash, black locust, hackberry, sycamore, boxelder, and native cottonwoods.

Vermont.—Balsam fir, tamarack, white spruce, white and red pines, sugar and Norway maples, American elm, beech, yellow birch, and basswood.

Virginia.—White and red oaks, black oak, willow oak, southern red oak, red maple, red and green ashes, horsechestnut, winged and American elms, black walnut, sycamore, London (oriental) plane, tuliptree (yellow poplar), basswood, dogwood, ginkgo, and honeylocust.

Washington.—East—Ponderosa pine, Rocky Mountain red cedar, cottonwoods, and boxelder.

West—Douglas fir, ponderosa pine, western white spruce, western white pine, Port Orford cedar, lowland white fir, Garry oak, paper birch, bigleaf maple, and madroña.

West Virginia.—White pine, tamarack, red spruce, eastern hemlock, arborvitae (northern white cedar), pin oak, red oak, yellow birch, sugar maple, white ash, black walnut, American elm, cucumber tree, red (sweet) gum, redbud, holly, basswood, Hercules-club, flowering dogwood, and fringetree.

Wisconsin.—Norway pine, white pine, white spruce, Norway spruce, arborvitae (northern white cedar), white oak, bur oak, red oak, beech, yellow birch, paper birch, sugar maple, white ash, American elm, and basswood.

Wyoming.—Ponderosa pine, Rocky Mountain red cedar (*Juniperus scopulorum*), lodgepole pine, blue spruce, green ash, boxelder, American elm, Chinese elm, native cottonwoods, and Russian-olive.

PLANTING SUGGESTIONS

The proper season for planting is not everywhere the same. Where spring is the best season—north of the thirty-seventh parallel generally—the right time is when the frost is out of the ground and before budding or growth begins (fig. 9).

Trees cannot be thrust into a rough soil at random and be expected to flourish. They should be planted in well-worked soil, well enriched. If they cannot be set out immediately upon receipt, the first step is to prevent their roots from drying out in the air. This may be done by "heeling in" the trees—that is, burying the roots in fresh earth and packing it enough to exclude the air. Evergreens in particular, which are always transplanted with a base of earth about the roots, die very quickly if the roots are allowed to become dry. Before planting, cut off the ends of all broken or mutilated roots. If it is a broadleaf tree that is being planted, prune the tree to a few main branches and shorten these. Evergreen trees should not be pruned.

Dig holes at least 3 feet in diameter and 2 feet deep. If the soil is poor, the holes should be 4 feet in diameter. Make the sides perpendicular and the bottom flat. Break up the soil in the bottom to the depth of the spade blade. Spread on the bottom 12 or 15 inches of good topsoil, free from sods or other undecomposed vegetable matter.

On top of this layer spread out the roots of the tree, making sure that none of them are in a cramped position, and cover them with 2 or 3 inches of fine topsoil. Firm the soil about the roots, water lightly and after the water soaks in fill the hole with rich soil, continuing to firm it, but leaving the surface loose and a little higher than the surface of the surrounding soil.

When planted, the trees should stand about 1 inch deeper than they stood in the nursery. They should be planted far enough apart so that at maturity they will not be crowded. This is especially important, for the trees will not grow well unless they have an adequate



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FIGURE 9.—Lifting and packing Norway pine seedlings for transplanting. Beal Nursery, Huron National Forest, Mich.

supply of light and moisture. (For planting distances consult publications listed on pages 14 and 15.)

Young trees should not only be properly transplanted but should be cared for until they become so well established that they will grow without danger of dying of neglect.

CARING FOR THE TREES

Like any other plant, a tree requires light, water, and food. A newly planted tree, especially, must be tended to see that it does not suffer from lack of water, particularly during hot rainless periods. Trees along city streets, close-cropped lawns, etc., must be fed by spading in new soil or rotted manure or other plant foods, and the soil must be kept loose by spading lightly about the trunk before it becomes hard or packed. Systematic care must be taken to see that the young trees do not suffer from drought, starvation, or suffocation. In such locations it is advisable to protect the tree by a stake and a guard during the first 4 or 5 years at least. Whatever the location, provision must be made to protect the trees against insect or fungous attacks.

WOOD AND WATER

Manifestly there are thousands of trees of natural origin to everyone planted by man. We have only in late years come to realize the necessity for taking care of these trees, having never before considered that they needed any care. With our forests dwindling rapidly, with the need for wood increasing, and with the saws working at a tremendous rate in the last great body of virgin timber in the United States—that in the Pacific Northwest—we have reached the point where we must choose timber growing now or timber shortage and distress in the not far distant future.

President Theodore Roosevelt, in an Arbor Day letter to the school children of the United States, laid particular stress on that side of the



F-254523

FIGURE 10.—A plantation of white pines on a watershed in York County, Pa.

Arbor Day festival which teaches the necessity for careful use and perpetuation of our natural resources.

For the nation, as for the man or woman or boy or girl, the road to success is the right use of what we have and the improvement of present opportunity. If you neglect to prepare yourself now for the duties and responsibilities which will fall upon you later, if you do not learn the things which you will need to know when your school days are over, you will suffer the consequences. So any nation which in its youth lives only for the day, reaps without sowing, and consumes without husbanding, must expect the penalty of the prodigal whose labor could with difficulty find him the bare means of life.

A people without children would face a hopeless future; a country without trees is almost as helpless; forests which are so used that they can not renew themselves will soon vanish, and with them all their benefits. A true forest is not merely a storehouse full of wood, but, as it were, a factory of wood and at the same time a reservoir of water. When you help to preserve our forests or plant new ones you are acting the part of good citizens.

Forests are of immense importance in conserving and controlling the water needed for domestic and community uses (fig. 10), for irrigating farm lands, for generating electric power, and for regulating and maintaining the flow of navigable streams.

Wherever there are no forests on the hills and mountains the rain and melted snow rush off in torrents, digging out great gullies and carrying away the fertile soil. Where there is a forest the trees protect the soil from the beating of the rain and the rush of snow water; the water soaks deep into the ground to be stored up there and gradually fed out by springs all the year round; the leaf litter absorbs and holds the water like a sponge; the trunks and roots prevent the rapid run-off of water and bind the soil together. Thus the forest is of tremendous benefit in preventing both floods and drought; and it is imperative that the watersheds of navigable streams and those upon which towns, cities, irrigation projects, and water-power plants depend for their supply should be forested. In a number of the States



F-211643

FIGURE 11.—Virgin white pine grove. Heart's Content, Allegheny National Forest, Pa.

the areas surrounding municipal and private reservoirs are systematically planted by their owners with forest trees for the protection of the water supply.

NATIONAL, STATE, AND COMMUNITY FORESTS

The most significant Arbor Day tree, the tree that means most to the Nation, the State, and the community, is the tree of the forest. The national forests of the United States have a combined area of more than 170,000,000 acres, in 32 States, Alaska, and Puerto Rico (fig. 11). The number of national forests approximates 150, and in addition a number of purchase units have been established within which lands are being purchased by the Federal Government for national forest purposes. These national forests are being managed for "sustained yield" or continuous production of timber and other products and benefits.

But the national forests represent only a fraction of the country's total forest land. Our Nation's forest wealth has been subject to exploitation and devastation on a gigantic scale. Millions of acres of natural forest land have been converted to waste land by destructive cutting and fire. These millions of acres represent a huge problem of rehabilitation of forest land and restoration of forest resources native to the soil.

In recent years reforestation has been greatly accelerated. Large-scale plantings undertaken by the Forest Service and other public agencies are restoring thousands of acres of denuded lands to tree growth, which will check soil erosion and regulate the flow of streams, as well as supply new crops of timber and other forest products. The Forest Service in 1935 planted a record total of 222 million trees with the aid of the Civilian Conservation Corps, and other State and Federal agencies planted additional millions.

These projects are steps in the right direction, but the forest needs of the country are so great that tree planting must continue on a large scale if the millions of acres of devastated forest lands are once more to make their proper contribution to the national welfare.

State forests have a total of nearly 18 million acres. New York has more than 2½ million acres, and Pennsylvania, Minnesota, and Michigan more than a million acres each in State forests.

As such areas for public use and enjoyment have increased in number, the idea has gained impetus and municipal or town forests are becoming part of community development in many sections of the country. Thirty-two States and the District of Columbia contain municipal and county forests and parks, with a total area of more than 2½ million acres. The States leading in area of municipal and county forests, in the order of aggregate acreage, are Wisconsin, Oregon, New Jersey, California, New York, Colorado, North Carolina, Vermont, Massachusetts, Illinois, Connecticut, Ohio, Maryland, Pennsylvania, New Hampshire.

Such parks and forests are created and administered for various reasons, such as for protection of reservoirs and watersheds, game preserves or bird sanctuaries, public playgrounds or tourist camps, or for supplies of fuel and other forest products. Some again, surround landmarks and spots of historic interest, or are established as memorials to outstanding citizens.

The community that directs the impetus of Arbor Day celebration toward the establishment of a community forest, is not only setting up a school of the woods for its citizens but is practically certain, with good management, to find itself in possession of a paying investment. Community forests may be so located as to be useful protectors of the water supply, as well as serving for recreation grounds. They have also served in many cases to produce income from the sale of timber, provide employment, and generally improve the prosperity and well-being of the city, town, or county. No better use could be made of the Arbor Day idea than to direct it toward the establishment and management of such forests (fig. 12).

FOREST WEEK

Closely associated with Arbor Day in its patriotic purposes is the custom of celebrating a forest week. The idea was originated by Herbert Evison, of the Washington Natural Parks Association, and

forest week was first observed on the Pacific coast May 23-29, 1920, when Federal, State, and private agencies cooperated in an effort to bring about a realization of the importance of preventing forest fires. In 1921 President Harding issued the first proclamation setting aside Forest Protection Week for national observance. Until 1925 the emphasis was laid entirely on preventing fire, the greatest destructive agency at work in our forests. In 1925 the purpose of the movement was broadened to include all phases of national-forest policy and was given the designation American Forest Week in a proclamation issued by President Coolidge, reading in part as follows:

In proclaiming American Forest Week, I desire to bring to the attention of all our people the danger that comes from the neglect of our forests. We have too freely spent the rich and magnificent gift that nature bestowed on us. In



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FIGURE 12.—Slash pine planted at a Boy Scout campground in Georgia.

our eagerness to use that gift we have stripped our forests; we have permitted fires to lay waste and devour them; we have all too often destroyed the young growth and the seed from which new forests might spring. And though we already feel the first grip of timber shortage, we have barely begun to save and restore.

We have passed the pioneer stage and are no longer excusable for continuing this unwise dissipation of a great resource. To the Nation it means the lack of an elemental necessity and the waste of keeping idle or only partly productive nearly one-fourth of our soil. To our forest-using industries it means unstable investments, the depletion of forest capital, the disbanding of established enterprises, and the decline of one of our most important industrial groups.

Our forests ought to be put to work and kept at work. * * * We must all put our hands to this common task. It is not enough that the Federal, State, and local governments take the lead. There must be a change in our national attitude. Our industries, our landowners, our farmers, all our citizens must learn to treat our forests as crops, to be used but also to be renewed. We must learn to tend our woodlands as carefully as we tend our farms.

During the years 1921-28 observances were held on the same date throughout the country and were under the general direction of a national committee representing nearly 100 associations interested in forestry and kindred subjects. In 1929 the plan which had been

followed from the beginning with regard to Arbor Day was adopted and the date and method of observance left to the individual States. This enables each State to choose a time that fits into its program of



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FIGURE 13.—Spreading seeds to dry. Kisatchie National Forest, La.

forest-fire protection, tree planting, etc., and opens the way for concerted public action in each region toward the solution of local forest problems, with the cooperation of the Forest Service, in coordinating these local efforts and fitting them in with the national-forestry program (fig. 13).

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